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1. **Register Online** at www.patc.com — Yellow link upper left corner
2. **Fax Form** to Public Agency Training Council **FAX: 1-317-821-5096**
3. **Mail Form** to

Public Agency Training Council
5235 Decatur Blvd
Indianapolis, Indiana 46241
Federal ID# 47-4078912

***NEW**

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*** Pre-payment is **not required** to register ***

Upon receiving your registration we will send an invoice to the department or agency.

Checks, Claim Forms, Purchase Orders should be made payable to:

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If you have any questions please call

317-821-5085 (Indianapolis)

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Seminar Title:	Cell Phone Technology & Forensic Data Recovery Certification	Seminar ID #16118
Instructor:	Glenn Bard	
Seminar Location:	Columbus, Ohio Division of Police Training Academy 1000 North Hague Avenue Columbus, Ohio 43204-2121	
When:	January 21, 22, 23, 24 & 25, 2019	
Registration Time:	8:00 A.M. (January 21, 2019)	
Hotel Reservations:	Drury Inn 88 East Nationwide Blvd Columbus, Ohio 43215 1-614-221-7008 \$88.00 Single or Double (plus tax)	
Registration Fee:	\$695.00 Includes Training, Course Manual, Coffee Breaks, Certificate of Completion, Testing for CTF Certification	

Note: Identify with **Columbus Police Training** to receive discounted room rates

Names of Attendees 1. _____

2. _____

3. _____

4. _____

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Public Agency Training Council

5235 Decatur Blvd
Indianapolis, Indiana 46241

Phone: 1-800-365-0119

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Visit us on the Web at:

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January 21, 22, 23, 24 & 25, 2019 • Columbus, Ohio

Public Agency Training Council

Mark Waterfill, President



Sponsored By:

Columbus Police Department

Columbus, Ohio

Training Seminar

Cell Phone Technology & Forensic Data Recovery Certification For Investigators

This course qualifies for PATCtech CTF Certification and /or Re-Certification

Who Should Attend: All New and Experienced Investigators and Specialists --- Drug Investigators, Homicide Investigators, Sex Crimes Investigators, Burglary/Robbery Investigators, Fire/Arson Investigators, Private Investigators, I.T. Specialists and Digital Forensics Examiners.

Instructor:

Glenn K. Bard, CISSP, CFCE, EnCE, CHFI, ACE, AME, A+, Network+, Security+
Pennsylvania State Police (Retired)

Glenn Bard is a retired Pennsylvania State Trooper First Class and U.S. Veteran of Operation Desert Storm. In 1999 Glenn began Computer Crime Investigations for the PA State Police and has since investigated crimes across the United States ranging from Child Pornography to Criminal Homicide. Glenn has also conducted forensic examinations for city, state and federal Law Enforcement Agencies including the FBI, US Postal Inspectors, and I.C.E. as well as foreign governments. In the last 15 years he has conducted exams on over 8000 devices ranging from simple phone exams to encrypted RAID 5 servers.

During his career Glenn has continued his education and has achieved and maintained several certifications including CISSP, EnCE, CFCE, CHFI, A+, Network+, Security+, and ACE. While Glenn was still a sworn State Trooper he also obtained the Class "A" Wiretap Certification, which expired upon his retirement.

Due to his training and experience, Glenn has been certified as an expert in Pennsylvania Court of Common Pleas, State of Tennessee, United States Virgin Islands and the United States Federal Court System in the areas of Digital Forensics, Cellular Technology and Computer Technology. Glenn has also been certified as an expert Instructor in the State of Maryland and Arkansas.

In 2010, Glenn was selected by the US Attorney's office in Pittsburgh and OPDAT to teach computer crime investigations and computer forensics in Tirana, Albania.

Additionally, he has been a speaker for organizations of all sizes and types, both public and private, to include the Cyril H. Wecht Institute of Forensic Science and Law, Pennsylvania Fraternal Order of Police, Illinois Fraternal Order of Police, New Jersey Fraternal Order of Police, Federal Fraternal Order of Police, and the Institute of Law Enforcement Education, as well as numerous Homicide, Arson, Fraud and Drug conferences.

Several of the cases Glenn has worked on have received National coverage, to include Fox News, Dateline, Investigation Discovery, the Associated Press, Yahoo!, the New York Times, Pittsburgh Post-Gazette, Pittsburgh Tribune Review and more. Several of the cases have also been made into books, movies, and television specials.

In 2013 alone Glenn testified in several murder trials in numerous states concerning Cellular forensics, Computer forensics and Cellular records analysis and mapping.

Additionally, Glenn has received numerous awards during his military and police career, including Honorable Discharges from both the United States Army and the Pennsylvania State Police. Another great honor that Glenn is very proud of is being selected to become a Project ALERT volunteer for the National Center for Missing and Exploited Children.

Glenn is the Chief Technical officer for PATCtech, overseeing all Digital Forensic and Data Services. Glenn has acted as technical consultant and/or personally developed Computer Forensic Programs at multiple Colleges, to include Westmoreland County Community College where he was a faculty instructor prior to retiring.

January 21, 22, 23, 24 & 25, 2019

Columbus, Ohio

Register online at: www.patc.com

Training Seminar

Cell Phone Technology
& Forensic Data
Recovery Certification

For Investigators

Are You Missing Evidence?

No matter what size agency you work for, if you are a criminal investigator and have not been trained in Cell Phone Technology & Digital Forensics, you DO NOT have all the Evidence!

PATCtech CTF training is the industry standard certification for equipping the investigator with the skills and credentials for forensically recovering and analyzing cell phone data.

CTF Certification Details

The PATCtech CTF certification is a one-of-a-kind certification for law enforcement, private investigators, SIU's and computer specialists. CTF training and testing validates a user's ability to use cell phone records and cell phone forensic technologies in any type of investigation.

The PATCtech CTF certification is valid for two (2) years beyond the completion date of your most recent CTF qualified training.

CTF Certification Testing

Test Based on the Cell Phone Technology and Forensic Data Recovery Content Covered During This Class. Details on testing procedures will be given during class. Training and successful completion of certification testing qualifies for CTF Certification and/or re-certification.

NOTE:

It is **highly recommended**, yet not required, for students to bring a PC based laptop computer. A large portion of this class is hands on and anyone with out a laptop may not be able to participate in the hands on exercises.

COURSE OBJECTIVES

SECTION 1: Forensic Cell Phone Data Recovery

The primary objectives of this section are to familiarize the law enforcement officer and investigator with different cell phone data recovery solutions and practical techniques used in cell phone data analysis.

Primary Topics Covered in this section include:

Different types of cell phones:
Cover CDMA, GSM and cellular phones and the differences;
Discuss which companies use which type of technology;
Discuss the new smart phones, such as the iPhone and Android;
Using the internet to determine the wireless carrier for a cell phone.

Cell phone forensics hardware: Look at several types of connection hardware to conduct exams such as USB Data cables, Bluetooth connectors, and SIM Card readers.

Cell phone forensics utilities: Demonstrate and allow for hands on application of several types of software and hardware to examine the contents of the phones for each type of cell phone technology. (i.e., CDMA, GSM.) Many types of utilities will be covered ranging from free software to expensive forensic software packages. (Including Oxygen Forensic Suite, Secureview, and more)

Cell phone seizure: We will discuss the proper steps to seizing and storing a cell phone so that the data is protected.

Cell phone Resources on the Internet: In this block we will discuss and explore many websites that focus on cell phone forensics.

Wireless Carriers: We will learn what type of information we can obtain from the wireless carrier that may help our examination easier and more effective.

Legal Block and Case Law: How to prepare a proper search warrant for the data stored on a cell phone, and current case law pertaining to cellular technology.

Application Analysis: The student will be instructed on how to analyze applications that may not be supported by forensic software, by analyzing the SQL, Plist and XML files on the devices.

SECTION 2: Cell Phone Technology

The purpose of this section is to expose the attendee to proficient and effective investigations utilizing available databases and cellular usage records.

The attendee will be trained on proven effective techniques to enhance their criminal investigation.

Everyone has heard about the prevalence of cell phones in criminal investigations. From CSI to 24, this technology exists and is currently being utilized across the United States to convict thousands of criminals. From homicides, fraud investigations, assaults to aggravated kidnappings, this course will demonstrate the basic concepts and methods to utilizing cellular records to prosecute criminals.

This course is specifically designed for police officers, investigators, fire investigators, detectives, criminal investigation personnel, special investigation units or any other individual to increase their knowledge and effectiveness in the recognition, use and display of information derived from background research and cellular data records.

Primary topics include:

- Types of cellular records available as a law enforcement official
- Methods to acquire cellular records
- Understanding cellular records
- Proven ways to display cellular records in a court of law
- Understanding the usage and manner in cellular tower records
- Software solutions that effectively display cellular records

Cut Along Dotted Line

Seminar Agenda

Cell Phone Technology &
Forensic Data Recovery Certification

For Investigators

January 21, 22, 23, 24 & 25, 2019 • Columbus, Ohio

Monday, January 21, 2019

8:00a.m.-8:30a.m.

Registration

8:30a.m.-12:00p.m.

Identifying the Needs of Cellular Forensics
What Can Be Obtained?
Connecting Hardware
Preserving the Phone

12:00p.m.-1:00p.m.

Lunch (On Your Own)

1:00p.m.-5:00p.m.

Using Various Software to Examine Phones

Tuesday, January 22, 2019

8:00a.m.-12:00p.m.

Using Various Software to Examine Phones

12:00p.m.-1:00p.m.

Lunch (On Your Own)

1:00p.m.-5:00p.m.

Continue Hands-On Forensic Analysis Cellular Phones

Wednesday, January 23, 2019

8:00a.m.-12:00p.m.

Continue Hands-On Forensic Analysis Cellular Phones
Online Resources

12:00p.m.-1:00p.m.

Lunch (On Your Own)

1:00p.m.-5:00p.m.

Hands-On Class Practical

Thursday, January 24, 2019

8:00 a.m. – 12:00p.m.

Introduction to Cellular Technology and Terminology
Identifying Cellular Providers
What Can Be Obtained From the Providers
Preparing the Legal Process

12:00p.m.-1:00p.m.

Lunch (On Your Own)

1:00p.m.-5:00p.m.

Understanding the Results
Mapping the Results
Identifying Locations
Understanding the Latitude and Longitude

Friday, January 25, 2019

8:00a.m.-12:00p.m.

Class Practical
Testing the Results and Recreating the Scenario
Testifying in Court
CTF Certification testing procedures given

12:00p.m.

Certificate Presentation